

FORM PTO-1390 (REV. 6-87)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTORNEY'S DOCKET NUMBER  <b>1384-01</b> <b>10/019899</b>	
<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)</b>					
INTERNATIONAL APPLICATION NO. PCT/JP01/04043		INTERNATIONAL FILING DATE 15 MAY 01 (15.05.01)		PRIORITY DATE CLAIMED 16 MAY 00 (16.05.00)	
TITLE OF INVENTION COMPOSITE CEMENTED CARBIDE ROLL AND HOT ROLLING METHOD OF STEEL USING SAME					
APPLICANT(S) FOR DO/EO/US Hideo Kijima, Toshiki Hiruta, Kazuhito Kenmochi, Toshiyuki Hattori and Maki Horiuchi					
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items under 35 U.S.C. 371:					
1. <input checked="" type="checkbox"/> This express request to immediately begin national examination procedures (35 U.S.C. 371(f)). <sup>2</sup>					
2. <input checked="" type="checkbox"/> The U.S. National Fee (35 U.S.C. 371(c)(1)) and other fees as follows:					
CLAIMS	(1) FOR	(2) NUMBER FILED	(3) NUMBER EXTRA	(4) RATE	(5) CALCULATIONS
	TOTAL CLAIMS	28 -20=	8	x \$18.00	\$144.00
	INDEPENDENT CLAIMS	4 -3=	1	x \$84.00	\$84.00
	MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$280.00	\$280.00
	BASIC NATIONAL FEE (37 CFR 1.492(a)(1)-(4)):				
	<input type="checkbox"/> International preliminary examination fee paid to USPTO (37 CFR 1.482).....\$710.00				
	<input type="checkbox"/> No international preliminary examination fee paid to USPTO (37 CFR 1.482) but international search fee paid to USPTO (37 CFR 1.445(a)(2)).....\$740.00				
	<input type="checkbox"/> Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO.....\$1,040.00				
	<input type="checkbox"/> International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(2) to (4).....\$100.00				
	<input checked="" type="checkbox"/> International Search Report enclosed .....\$890.00				
	Surcharge of \$_____ for furnishing the National fee or oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 mos. from the earliest claimed priority date (37 CFR 1.482(e)). \$130.00				
	TOTAL OF ABOVE CALCULATIONS				
	Reduction by 1/2 for filing by small entity, if applicable. Affidavits must be filed also. (Note 37 CFR 1.9, 1.27, 1.28.)				
	SUBTOTAL				
	Processing fee of \$_____ for furnishing the English Translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 mos. from the earliest claimed priority date (37 CFR 1.482(f)). \$130.00				
	TOTAL NATIONAL FEE				
	Fee for recording the enclosed assignment (37 CFR 1.21(h)). \$40.00				
	TOTAL FEES ENCLOSED				
a. <input checked="" type="checkbox"/> A check in the amount of \$1,438.00 to cover the above fees is enclosed.					
b. <input type="checkbox"/> Please charge my Deposit Account No. 13-3405 in the amount of \$_____ to cover the above fees. A duplicate copy of this sheet is enclosed.					
c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 13-3405. A duplicate copy of this sheet is enclosed.					



3. A copy of the International Application as filed (35 U.S.C. 371(c)(2))
- a. ☐ is transmitted herewith (required only if not transmitted by the International Bureau).
  - b. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
  - c. ☒ has been transmitted by the International Bureau.
4. ☒ A translation of the International Application into English (35 U.S.C. 371(c)(2)).
5. Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
- a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
  - b. ☐ have been transmitted by the International Bureau.
6. ☐ A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
7. ☒ An oath or declaration of the inventor (35 U.S.C. 371(c)(4)).
8. ☐ A translation of the Annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Other document(s) or information included:

9. ☐ An Information Disclosure Statement under 37 C.F.R. 1.97 and 1.98.
10. ☒ An Assignment document for recording and a Recordation Form Cover Sheet - Patents Only. Please mail the recorded assignment document to the person whose signature, name and address appears at the bottom of this page.
11. The above checked items are being transmitted
- a. ☐ before the 18th month publication.
  - b. ☒ after publication and the Article 20 communication but before 20 months from the priority date.
  - c. ☐ after 20 months but before 22 months (surcharge and/or processing fee included).
  - d. ☐ after 22 months (surcharge and/or processing fee included).
- Note: Petition to revive (37 C.F.R. 1.137(a) or (b)) is necessary if 35 U.S.C. 371 requirements submitted after 22 months and no proper demand for International Preliminary Examination was made by 19 months from the earliest claimed priority date.*
- e. ☐ by 30 months and a proper demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
  - f. ☐ after 30 months but before 32 months and a proper demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date (surcharge and/or processing fee included).
  - g. ☐ after 32 months (surcharge and/or processing fee included).
- Note: Petition to revive (37 C.F.R. 1.137(a) or (b)) is necessary if 35 U.S.C. 371 requirements submitted after 32 months and a proper demand for International Preliminary Examination was made by 19 months from the earliest claimed priority date.*
12. At the time of transmittal, the time limit for amending claims under Article 19
- a. ☐ has expired and no amendments were made.
  - b. ☐ has not yet expired.

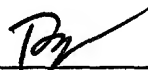
13. ☐ Certain requirements under 35 U.S.C. 371 were previously submitted by the applicant on \_\_\_\_\_, namely:

SCHNADER HARRISON SEGAL & LEWIS

Date:

31 Dec 2001

By:



T. Daniel Christenbury, Reg. No. 31,750  
1600 Market Street, 36<sup>th</sup> Floor  
Philadelphia, PA 19103



10/019899  
531 Rec'd PCT 31 DEC 2001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit :  
Examiner :  
Serial No. :  
Filed : Herewith  
PCT No. : PCT/JP01/04043  
PCT Filed : May 15, 2001  
Inventors : Hideo Kijima  
: Toshiki Hiruta  
: Kazuhito Kenmochi  
: Toshiyuki Hattori  
: Maki Horiuchi  
Title : COMPOSITE CEMENTED  
: CARBIDE ROLL AND  
: HOT ROLLING METHOD  
: OF STEEL USING SAME  
:



22469

PATENT TRADEMARK OFFICE

Docket: 1384-01

Confirmation No.:

Dated: December 31, 2001

**BOX PCT**

Commissioner for Patents  
Washington, DC 20231

Sir:

**37 CFR 1.10  
EXPRESS MAIL CERTIFICATION**

"Express Mail" mailing label number: **EL864966623US**

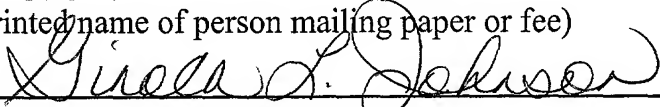
Date of Deposit: December 31, 2001

DESCRIPTION OF CONTENTS: Postcard, \$1,438.00 Check, Application Transmittal Letter, Form PTO-1390, in duplicate, Preliminary Amendment, English translation of PCT Application as it was filed with 8 sheets of drawings, copy of Request (6 Pages), copy of Forms PCT/IB/301, 304 and 308 including two pages of WO 01/87508 A1 and two pages of International Search Report, executed Combined Declaration, Power of Attorney and Petition, Recordation Form Cover Sheet - Patents Only and executed Assignment.

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Box PCT, Commissioner for Patents, Washington, DC 20231.

GINOLA L. JOHNSON

(Typed or printed name of person mailing paper or fee)

  
(Signature of person mailing paper or fee)

POST "EXPRESS"



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit :  
Examiner :  
Serial No. :  
Filed : Herewith  
PCT No. : PCT/JP01/04043  
PCT Filed : May 15, 2001  
Inventors : Hideo Kijima  
: Toshiki Hiruta  
: Kazuhito Kenmochi  
: Toshiyuki Hattori  
: Maki Horiuchi  
Title : COMPOSITE CEMENTED  
: CARBIDE ROLL AND  
: HOT ROLLING METHOD  
: OF STEEL USING SAME  
:



22469

PATENT TRADEMARK OFFICE

Docket: 1384-01

Confirmation No.:

Dated: December 31, 2001

**APPLICATION TRANSMITTAL LETTER**

**BOX PCT**

Commissioner for Patents  
Washington, DC 20231

Sir:

We submit herewith for filing in the U.S. Patent and Trademark Office an English translation of the above-identified PCT Application as it was filed with 8 sheets of drawings, a copy of the Request (6 pages), copy of Forms PCT/IB/301, 304 and 308, including two pages of WO 01/87508 A1 and International Search Report, an executed Combined Declaration, Power of Attorney and Petition, a Recordation Form Cover Sheet - Patents Only, executed Assignment, Form PTO-1390, in duplicate, Preliminary Amendment, and our check in the amount of \$1,438.00, comprising the official filing fee and recording fee.

Respectfully submitted,

T. Daniel Christenbury  
Reg. No. 31,750  
Attorney for Applicants

TDC:gj  
(215) 563-1810

FOR FILING 5635T001